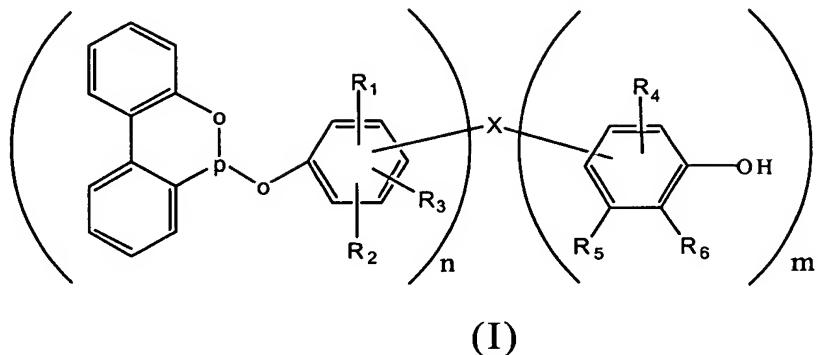


WE CLAIM:

1. A phenolic group-containing phosphonite compound of formula (I)



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wherein

$R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  independently of one another are hydrogen or  $C_1-C_{18}$  alkyl,

10 n and m are integer numbers ranging from 1 to 3, and the sum of n and m ranges from 2 to 4; and

wherein

X, if the sum of n and m is 2, is sulfur or  $C_1-C_8$  alkylene which may be optionally substituted with at least one  $C_1-C_6$  alkyl,

15 X, if the sum of n and m is 3, is a trivalent moiety of  $C_3-C_7$  aliphatic group, and

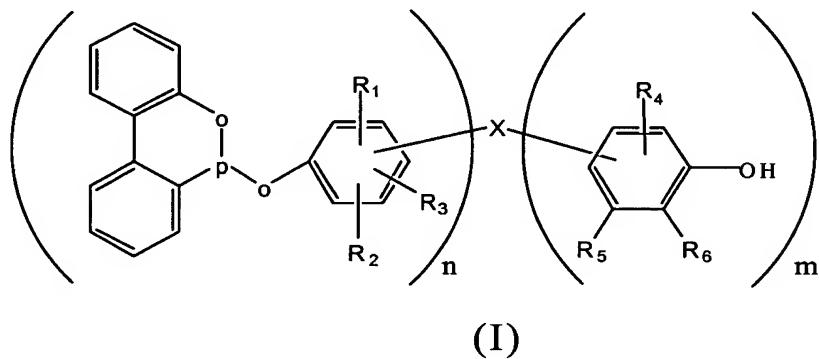
X, if the sum of n and m is 4, is a tetravalent moiety of  $C_4-C_{10}$  aliphatic group.

2. The compound of formula (I) as defined in Claim 20 1, wherein n and m are 1, and X is  $C_1-C_6$  alkyl substituted alkylene.

3. The compound of formula (I) as defined in Claim 2, wherein X is propylmethylen, R<sub>1</sub> and R<sub>4</sub> are methyl, R<sub>2</sub> and R<sub>6</sub> are t.butyl, and R<sub>3</sub> and R<sub>5</sub> are hydrogen.

4. A polymer composition stabilized against oxygen, 5 light, and heat, comprising:

a polymer material; and  
a phenolic group-containing phosphonite compound of formula (I)



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wherein

R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and R<sub>6</sub> independently of one another are hydrogen or C<sub>1</sub>-C<sub>18</sub> alkyl,

15 n and m are integer numbers ranging from 1 to 3, and the sum of n and m ranges from 2 to 4;

wherein

X, if the sum of n and m is 2, is sulfur or C<sub>1</sub>-C<sub>8</sub> alkylene which may be optionally substituted with at least one C<sub>1</sub>-C<sub>6</sub> alkyl,

20 X, if the sum of n and m is 3, is a trivalent moiety of C<sub>3</sub>-C<sub>7</sub> aliphatic group, and

X, if the sum of n and m is 4, is a tetravalent moiety of C<sub>4</sub>-C<sub>10</sub> aliphatic group.

5. The polymer composition as defined in Claim 4, wherein n and m are 1, and X is C<sub>1</sub>-C<sub>6</sub> alkyl substituted 5 alkylene.

6. The polymer composition as defined in Claim 5, wherein X is propylmethylene.

7. The polymer composition as defined in Claim 4, wherein X is sulfur.

10 8. The polymer composition as defined in Claim 4, wherein said polymer material is selected from the group consisting of polyolefins, polystyrene, and styrene copolymers.

9. The polymer composition as defined in Claim 4, 15 wherein said polymer material is selected from the group consisting of polypropylene, polyethylene, and mixtures thereof.

10. The polymer composition as defined in Claim 4, wherein said polymer material is acrylonitrile- 20 butadiene-styrene copolymer.

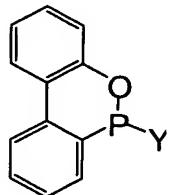
11. The polymer composition as defined in Claim 4, further comprising a phosphorus compound selected from the group consisting of tetrakis(methylene(3,5-di-t-butyl-4- 25 hydroxyhydrocinnamate)methane, octadecyl 3-(3',5'-di-t-butyl-4'-hydroxy-phenyl)propionate, and mixtures thereof.

12. The polymer composition as defined in Claim 4, further comprising a phosphite compound selected from the group consisting of tris(2,4-di-t-butylphenyl)phosphite, cyclic neopentanetetrayl 5 bis(octadacyl phosphite), and mixtures thereof.

13. The polymer composition as defined in Claim 12, further comprising a phosphorus compound selected from the group consisting of tetrakis(methylene(3,5-di-t-butyl-4- 10 hydroxyhydrocinnamate)methane, octadecyl 3-(3',5'-di-t-buty-4'-hydroxy-phenyl)propionate, and mixtures thereof.

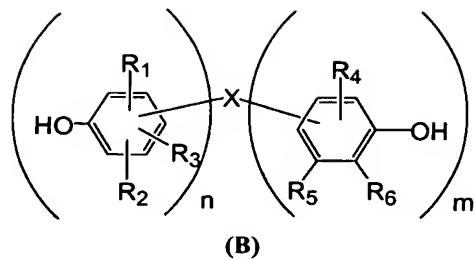
14. The polymer composition as defined in Claim 4, wherein said phenolic group-containing phosphonite 15 compound is in an amount of from 0.05 to 0.5wt% of said polymer composition.

15. A process for preparing the compound of formula (I) as defined in Claim 1, comprising the steps of: reacting a phosphonite compound of formula (A)



(A )

20 wherein Y is halogen, with a phenolic compound of formula (B)



wherein n, m, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and X have the  
5 same meanings as defined in Claim 1, in a non-acidic  
reaction condition.

16. The process as defined in Claim 15, wherein n and  
m are 1, and X is C<sub>1</sub>-C<sub>6</sub> alkyl substituted alkylene.

17. The process as defined in Claim 15, wherein X is  
10 propylmethylene, R<sub>1</sub> and R<sub>4</sub> are methyl, R<sub>2</sub> and R<sub>6</sub> are  
t.butyl, and R<sub>3</sub> and R<sub>5</sub> are hydrogen.

18. The process as defined in Claim 15, wherein the  
reaction is carried out in the presence of a base in  
an inert solvent.

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